

MKS BY125 Low Cost Synchrocontroller

HMI Factory Setting:

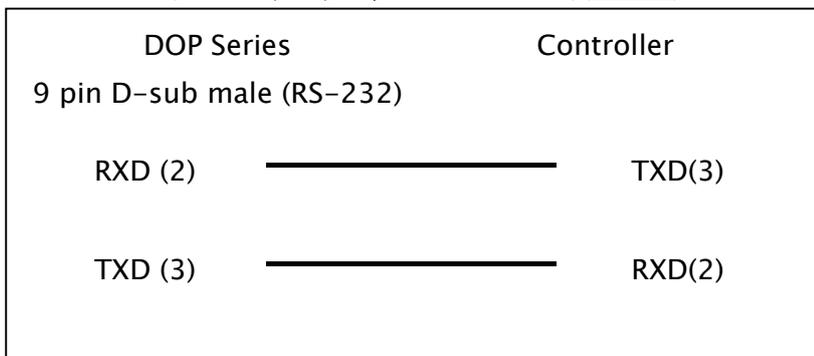
Baud rate: 9600, 7, Even, 1

Controller Station Number: 11 ([Note1](#))

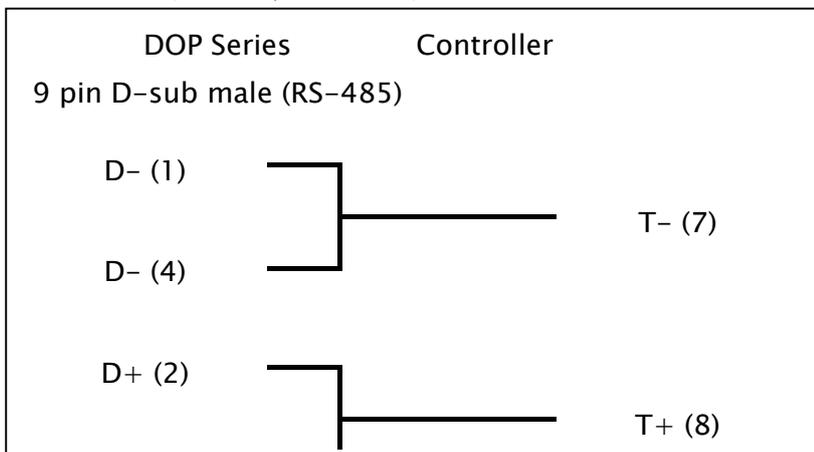
Control Area / Status Area: None/None

Connection

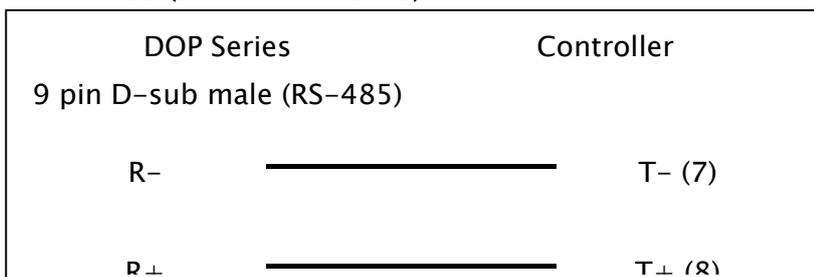
a. RS-232 (DOP-A/AE/AS, DOP-B Series) ([Note2](#))



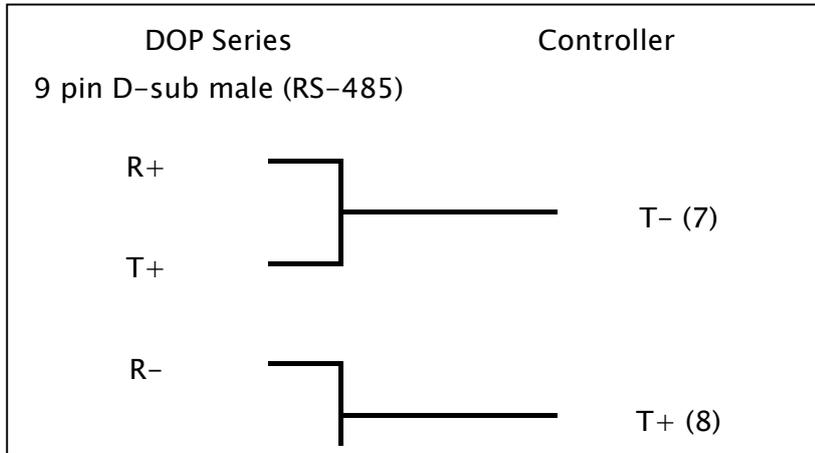
b. RS-485 (DOP-A/AE Series)



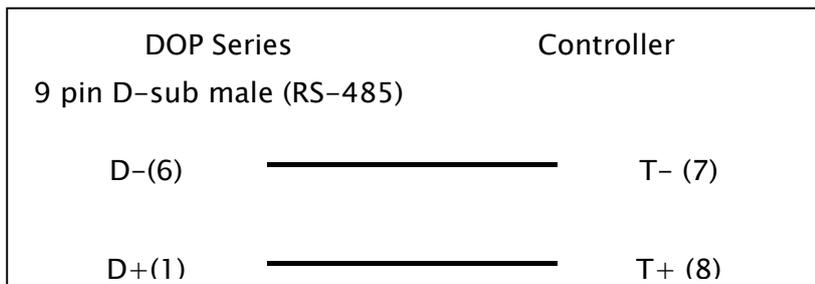
c. RS-485 (DOP-AS57 Series)



d. RS-485 (DOP-AS35/AS38 Series)



e. RS-485 (DOP-B Series)



Definition of PLC Read/Write Address

a. Registers

Type	Format	Read/Write Range	Data Length	Note
	Word No.(n)			
Data In Register / Setup Register	Cn	C0 - C17, C40 - C41, C45 - C48, C50, C90 - C92	Double Word	3
Synchronizing (Differential Counter)	SYN_ERRn	SYN_ERR0	Double Word	
Integration register	IRn	IR0	Double Word	
Actual Master speed	MAS_SPDn	MAS_SPD0	Double Word	

b. Contacts

Type	Format	Read/Write Range	Note
	Bit No.(n)		
Reset	RSTb	RST0	
Jog Trim+	JOGTRIM_INCb	JOGTRIM_INC0	

Jog Trim-	JOGTRIM_DECb	JOGTRIM_DEC0	
Activate Data	ACT_DATAb	ACT_DATA0	4

Type	Format	Read/Write Range	Note
	Bit No.(n)		
Store EEPROM	STR_EEPROMb	STR_EEPROM0	
Index Slave	IND_SLAb	IND_SLA0	
Index Master	IND_MASb	IND_MAS0	

 **NOTE**

- 1) The valid station number is in the range of 11 to 99. The station number 20, 30, 40, 50, 60, 70, 80, 90 are broadcast station number.
 - 00 for all broadcast
 - 10 for broadcast range from 11 to 19
 - 20 for broadcast range from 21 to 29
 - ... and so on

The broadcast function is not yet available, therefore do not use broadcast station number.
- 2) Please be aware RS-232 can only be connected to pin2, pin3 and pin5. Pin 9 is for +5V. DO NOT use pin 9 or serious damage may occur.
- 3) The effective addresses of Cn are not consecutive (5 blocks: C0~17, C40~41, C45~C48, C50, C90~C92). When setting the addresses, do not exceed the block range. For example, when using a Numeric Entry or Character Entry element, if the address is C15, the data length can only be 6 Words(for C15, C16, C17). A data length exceed 6 words would occupy other address setting except C0 ~ C17, in this case, an error may occur.
- 4) The received value of the device will not change even when all register address is written in. The user needs to press ACT_DATA0 again for value be updated.